



communications

Display Systems

1355 Bluegrass Lakes Parkway
Alpharetta, GA 30004

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02 February 2010
CL10-00000-0150/dh

Alenia Aeronautica
Corso Marche 41
10146 Turin
Italy

Attention: Francesco Bucci
Procurement
C-27J Program

SUBJECT: NOTICE OF SUSPECT LATTICE COMPONENTS

Dear Mr. Bucci:

L-3 Communications Display Systems (L-3 DS) has recently discovered that it is in receipt of suspected counterfeit lattice components which may have affected the C27J CMDU XGA (P/N# 104000-603). Please see Attachment A notice.

The serial numbers that may be affected are 4034 – 4073 (Qty 40). Shipments of the CMDU P/N# 104000-603 to Alenia occurred as follows:

January 2009 = 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043
March 2009 = 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4051, 4052, 4053
May 2009 = 4054, 4055, 4056, 4057, 4058, 4059, 4060, 4061, 4062, 4063
July 2009 = 4064, 4065, 4066, 4067, 4068, 4069, 4070, 4071, 4072
August 2009 = 4073

L-3 DS engineering has provided the following analysis regarding component failure:

The component is used on both the Taxi CCA (L-3 DS Part# 104440-603) and the Graphics Processor CCA (L-3 DS Part# 104340-809). On the TAXI, the part is used to decode the TAXI data and generate the video. On the Graphics Processor, the part is used to blend the graphics with the TAXI. A failure of either part would result in video anomalies on the display. If total part failure occurred the display would produce a blank screen. L-3 DS engineering would like the opportunity to discuss with Alenia the affect this condition could have regarding a potential safety concern.

L-3 DS needs to verify if the suspect component is in the delivered units and coordinate replacement of any components determined to be part of the suspect lot. L-3 DS would like

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to suggest that an L-3 DS team come to Italy to perform an inspection on the above listed units.

In the event that this is an acceptable option; L-3 DS will formulate a plan that will include this on site inspection step.

Please feel free to contact the undersigned if further information or clarification is required.

Sincerely,



Deborah K. Henning

Sr. Contracts Administrator

Phone: [REDACTED]

E-mail: [REDACTED]@L-3com.com

Cc: L. Ream
R. Hunt
D. Parriott

Attachment A – GIDEP Alert



GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

ALERT

1. TITLE (Class, Function, Type, etc.) Suspect Counterfeit, Microcircuit, In-System Programmable High Density PLD		2. DOCUMENT NUMBER GG5-A-10-01	
		3. DATE (DD-MMM-YY) 16 December 2009	
4. MANUFACTURER AND ADDRESS Lattice Semiconductor Corporation 5555 N.E. Moore Court Hillsboro, Oregon 97124-6421 USA	5. PART NUMBER [REDACTED]	6. NATIONAL STOCK NUMBER NOT AVAILABLE	
	7. SPECIFICATION NOT AVAILABLE	8. GOVERNMENT PART NUMBER NOT AVAILABLE	
	9. LOT DATE CODE START A533B07	10. LOT DATE CODE END A533B07	
11. MANUFACTURER'S POINT OF CONTACT Thomas J Lawler	12. CAGE 66675	13. MANUFACTURER'S FAX NOT AVAILABLE	
14. MFR. POC PHONE [REDACTED]	15. MANUFACTURER'S E-MAIL [REDACTED]@latticesemi.com		
16. SUPPLIER NOT AVAILABLE	17. SUPPLIER ADDRESS NOT AVAILABLE	18. SUPPLIER CAGE NOT AVAILABLE	
19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT <p>L-3DS received a total of 3147 pieces of [REDACTED] from an independent distributor; All components were Lot Code A533B07. Components were subjected to counterfeit inspection and analysis at an independent L-3 approved test facility with no obvious signs of suspect/counterfeit characteristics observed.</p> <p>During sub-tier re-tinning an unapproved etch process prompted L-3DS to contact Lattice Semiconductors Sales for OEM guidance.</p> <p>Lattice semiconductor, upon reviewing the data and pictures sent to them, observed inconsistencies with the part marking. The product lot ID A533B07 did not match their data base and the package backside did not have permanent laser markings for seal date and additional lot coding.</p> <p>L-3DS, in reviewing the attached Lattice letter (5 November 2009), has concluded that the components with Lot Code A533B07 should be considered suspect.</p> <p>Note: The manufacturer identified in block 4 is the entity whose product may have been counterfeited. This reporting convention is necessary to facilitate GIDEP database searches for suspect counterfeit products and is by no means intended to imply that the manufacturer identified in block 4 is involved with the suspect product.</p>			
20. ACTION TAKEN/PLANNED <p>L-3DS notified its customer of the incident. All 3147 suspect parts have been recalled, quarantined (at L-3), and replaced with known good components. Due to the elusive characteristics of this suspect component, L-3 has requested additional tests be included in the approved independent test facility screening process.</p>			
21. DATE MFR. NOTIFIED/ SUPPLIER NOTIFIED 04 Dec. 2009	22. MFR./SUPPLIER RESPONSE <input checked="checked" type="checkbox"/> REPLY ATTACHED <input type="checkbox"/> NO REPLY	23. ORIGINATOR ADDRESS/POINT OF CONTACT Mike Meo L-3Communications Display Systems 1355 Bluegrass Lakes Pkwy Alpharetta GA, 30004 [REDACTED]	
24. GIDEP REPRESENTATIVE Mike Meo	25. SIGNATURE [REDACTED]	26. DATE 16 Dec. 2009	



November 5, 2009

Robert T. Hunt
Director, Quality Assurance
L-3 Communications - Display Systems
1355 Bluegrass Lakes Parkway
Alpharetta, Georgia 30004-8458

Subject: Lattice [REDACTED] Lot A533B07

Dear Robert,

In reviewing the data and pictures that was sent to us in the Oneida Research Services, Inc report U100188-000 GI.PDF, we observed a number of curious inconsistencies:

1. This product lot ID code is from 1995, 14 years ago. This product lot ID code has the 1990 – 1999 alpha numeric scheme. In 2000, Lattice changed our product lot ID code scheme.
2. The product lot ID A533B07 does not match our manufacturing data base – there is a mismatch of product type and product lot ID.
3. The product lot ID A533B07 represents the A die/foundry code for the [REDACTED] built in year 1995, during work week 33 at assembly/test site B and the 7th lot built that work week. If this was a valid lot ID, lot A533B07 would have been manufactured in August 1995.

This manufacturing date implied by the product lot ID code is before the [REDACTED] mask set was released.

The earliest [REDACTED] mask set 03 shipments was in November 1995 with engineering sample material marked with an ES mark designation. The earliest [REDACTED] 03 mask set production shipment was in March 1996.

4. The package backside – the ejector pins, lack of permanent laser markings for seal date and additional lot coding and plastic surface features - does not match any of our suppliers.

The pictures show that a Lattice [REDACTED] mask set 03 die is in a package that was not built by any Lattice assembly subcontractors. We have no record of this [REDACTED] device lot.

We request L-3 Communications, determine the source of this [REDACTED] device.

Please let me know if you need any additional information.

Regards,

Thomas J Lawler
Director, Quality Assurance
Lattice Semiconductor Corporation
[REDACTED]